

Title (en)
TECHNIQUE FOR CALIBRATING A RECEIVER APPARATUS

Title (de)
VERFAHREN ZUR KALIBRIERUNG EINER EMPFÄNGERVORRICHTUNG

Title (fr)
TECHNIQUE D'ÉTALONNAGE D'UN APPAREIL RÉCEPTEUR

Publication
EP 2839620 B1 20171227 (EN)

Application
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Abstract (en)
[origin: WO2013156044A1] A technique for calibrating a receiver apparatus comprising at least one analog signal processing component and an intermediate frequency, or IF, mixer for converting IF signals comprising an in-phase, or I, signal and a quadrature-phase, or Q, signal to baseband frequency signals is provided. The IF mixer is arranged downstream of the at least one analog signal processing component. A method implementation of the technique comprises the steps of determining, in a digital processing domain downstream of the IF mixer, a metric which is affected by a frequency dependency of an imbalance between I and the Q signal, or IQ-imbalance, over a signal bandwidth, generating, based on the metric thus determined, a calibration signal configured to at least partially compensate a frequency-dependency of the IQ imbalance, and feeding the calibration signal to the at least one analog signal processing component so as to calibrate the at least one analog signal processing component.

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